

1st January

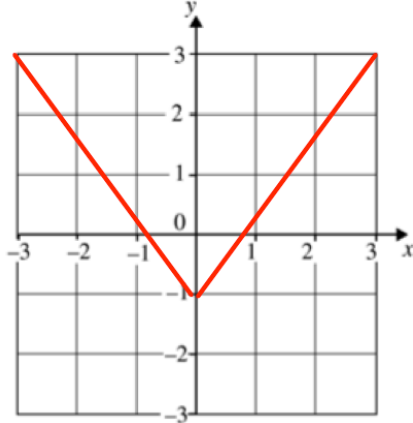
Corbettmaths

Prove $(2n + 2)^2 - (2n + 1)$ is always odd.

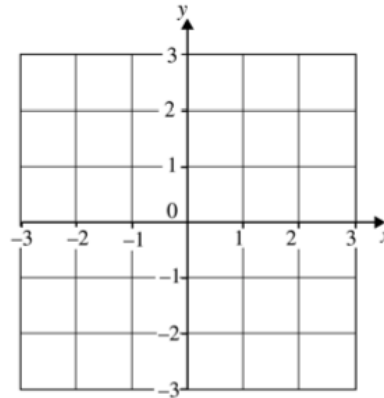
Rationalise the denominator

$$\frac{3 + \sqrt{2}}{\sqrt{3}}$$

Shown is $f(x)$



Sketch the function $f(x + 1)$



$$f(x) = 3x + 2$$

$$g(x) = x^2$$

Find $fg(x)$

Find $gf(5)$